SIEMENS

Data sheet 6ES7921-5CH20-0AA0



Front Conn. Mod.(Digital 1X50 P) S7-1500

Front connector module with 1x50 pole IDC connector for digital 32 I/O modules of the S7-1500 Potential supply over Push-in terminal

Technical Product Detail Page	https://i.siemens.com/1P6ES7921-5CH20-0AA0
target system	SIMATIC S7-1500
suitability for use	Digital I/O modules
product brand name	SIMATIC Top connect
product type designation	Fully modular connection
product designation	Front connector module
electrical data / header	
operating voltage / at DC	
● rated value	24 V
● maximum	60 V
continuous current / at DC / per plug-in contact / maximum	1 A
total current / maximum	2 A; for mounting position horizontal
connection method	
number of poles	40; of the front connector
Product component / with shield	No
type of electrical connection / for connecting cable	Plug-in connection
number of poles / at the 1st interface	50; the IDC connector for the connection cable
number of the plug contacts / of the electrical connection	1
wire length / maximum	30 m; between front connector module and terminal module
number of terminals	4; 4 x 1 x L+
type of electrical connection / for power supply	Push-In terminal
position / of the terminal	at the top
type of connectable conductor cross-sections / solid	No
connectable conductor cross-section	
● for flexible conductor / with core end processing	0.25 ... 1.5 mm²; End sleeve according to DIN 46228/1 or DIN 46228/4 with plastic collar max. 0.75 mm2
● stranded	0.5 ... 1.5 mm²
● finely stranded / without core end processing	0.5 ... 1.5 mm²
● finely stranded / with core end processing	0.25 ... 1.5 mm²
type of wire end sleeve	
● with plastic sleeve / according to DIN 46228-4	Length 8mm to 9mm
● without plastic sleeve / according to DIN 46228-1	Length 8mm to 9mm
number of cables / per connection	2; Connection for internal system: Combination of 1 or 2 Wires until the sum total of cross sections be achieved in a ferrule.
stripped length	8 mm
outer diameter / of the wire insulation	3.1 mm; to the connection of the supply terminal
width of screwdriver blade	3.5 mm
standards, specifications, approvals	
certificate of suitability / cULus approval	Yes

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design tested acc. to type of protection / EEx e	No
overvoltage category	2
degree of pollution	2
ambient conditions	
operating temperature	0 ... 60 °C
ambient temperature	
● during operation	0 ... 60 °C
● during storage	-40 ... +70
mechanical data	
mounting type	direct mounting
color / of the enclosure	black
product feature / transparent	No
material / of the insulating body	other
net weight	0.099 kg
product component / required / end cover plate	No
further information / internet links	
internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: system cabling	https://siemens.com/simatic-top-connect
● to website: Industry Online Support	https://support.industry.siemens.com
additional information	
manufacturer's article number / of device connector / usable	replacement for S7-1500 40 pole
other information	technical specifications apply to rated input voltage values and +25 °C ambient temperature (if not otherwise specified)
marketing text	The front connector module for SIMATIC S7-1500 with push-in terminals for potential feed to connect 50-pole cables represents a modified front connector for connection to a digital I/O module. This is plugged into the module to be wired instead of the front connector. Here the cables are plugged in and connected to the connection module.This modified front connector module is part of the fully modular connection of SIMATIC TOP connect for the fastest and safest system cabling. In addition to low wiring costs, error sources in cabling can be significantly reduced. Sensors and actuators from the peripherals are attached to the connection modules of SIMATIC TOP connect and linked to the SIMATIC S7-300 via connecting cable and front plug-in module.

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